LOCATION: R.M. 81.2 on Cypress Creek, 9 miles west of Jefferson, TX, in Marion County.

DRAINAGE AREA:

350-880 square miles*

One inch of runoff

45,330 acre-feet

DAM:

Type:

Rolled earth fill

Length:

10,600'

Maximum Height:

: 97'

Top Width:

30 °

SPILLWAY:

Crest Elev:

249.5' msl

Width:

200'

Type:

0gee

Control:

None

*Recent maps indicate a drainage area of 880 square miles instead of the 850 square miles used in the design of the reservoir.

INFLOW:

Spillway design flood peak, cfs 367,100 Spillway design flood volume, ac-ft 1,320,300 Spillway design flood runoff, inches 29.1

OUTFLOW:

Total routed peak outflow, cfs 74,600
Spillway, cfs 68,200
Outlet works, cfs 6,400

OUTLET WORKS:

Type: 2 gate controlled conduits

Dimension:

2-10' diameter

Invert elev:

199.0' msl

Control:

2-8'x12.5' gates

LOW-FLOW OUTLETS:

Type: 1 - 14" cast iron pipe, paralleling outlet structure before intersecting outlet conduit about 9 feet beyond the service gate.

POWER FEATURES:

None

	:	: Reser-	: Reservo	ir Capacity		:	•
	: Elev : feet	: voir : area	: Accumu- : : lative :	: Runoff :		: Spillway : Capacity	: Outlet Works : Capacity
Feature	: (msl)	: (acres)) : (ac-ft) :	(inches) :	(ac-ft)	: (cfs)	: (cfs)
Top of Dam	277.0		1,856,000		· · · · · · · · · · · · · · · · · ·		·····
Max Design Water Surface	269.9	63,200	1,0 13,9 00-	22-4 40.7		68,200	6,400
Top of Flood Control Pool	249.5	38,200	842 10 587, 200	13.0 18.58	3 36,100	387,200	•
Top of Conservation Pool	228.5	18,700	254,900251,100		24 7,3 00		
Bottom of Conservation Pool	201.0	1,100	3,800	0.1	1,650	,	
Sediment Reserve		·	•		2,150*	*	
Total Storage					587-200-		
Streambed	180.0				8 47.10	0	

STORAGE BETWEEN 228.50 and 230.00 = 28,800 AF = .64 "RUNOSF

(Sheet 1 of 2)
LAKE O'THE PINES FERRELL'S BRIDGE DAM

AUTHORIZATION: Flood Control Act approved 24 July 1946 (PL 79-526) (HD 602/79/2), Mod by PL 75-208.

PROJECT COST ESTIMATE (OCT 59):

Federal: Non-Federal: \$14,900,000

Non-Federal Total: None*

ANNUAL O&M COST (FY 81):

Federal: Non-Federal: 980,600 33,500

Total:

\$ 1,014,100

COST ALLOCATION METHOD: 1

Incremental

LOCAL AGENCY: Northeast Texas Municipal Water District

LAND ACQUISITION:

	: Guide Contour ('mal)	Area (Acres)
Fee simple	236	29,105
Easement	254.5	16,320
Total		45,425

FLOOD DATA:

Peak Discharge	
(cfs)	
57,100	
69,200	
38,600	
	(cfs) 57,100 69,200

Bankfull capacities below dam: Dam to below confluence with Little Cypress and Black Cypress - 3000 cfs; Below confluence to Caddo Lake - 7000 cfs. Gaging Stations: Big Cypress Cr near Winnsboro, Lake Cypress Springs near Mount Vernon, Big Cypress Cr near Pittsburg, Boggy Cr near Daingerfield, Ellison Creek Reservoir near Lone Star, Lake O'the Pines near Jefferson, Black Cypress Bayou at Jefferson, Little Cypress Cr near Ore City, Little Cypress Cr near Jefferson, Frazier Cr near Linden

STATUS OF PROJECT: Construction initiated on 10 Jan 55 with relocation of FM 726. Dam completed 25 Jun 58. Deliberate impoundment started 21 Aug 57 when cofferdam was closed across Cypress Creek in order to complete the dam embankment. Project is complete and operational.

*NON-FEDERAL PARTICIPATION AND LOCAL COOPERATION:
A water supply storage contract with the Northeast Texas Municipal Water District was approved
21 Oct 57 for 100 percent (250,000 ac-ft) of the
conservation between elevations 228.5 and 201.0
ft msl. NETMWD has paid \$1,752,565.37 and will
pay their share of the annual O&M cost for this
water supply storage space.

REMARKS:

Dependable yield**: 235 cfs or 152 MGD

**Based on a critical period from May 55 - Feb 57 and 50 years of sedimentation.

Visitation (1981): 3,981,742

Shoreline at top of conservation pool: NOT PROVIDED